NextGen 2025 OV-1

INTERNATIONAL HARMONIZATION

Air Traffic Services
- ATC-Advisory
- ATC-Separation Assurance
- Airspace Management
- Emergency and Alerting
- Flight Planning
- Infrastructure-Information Management
- TM-Strategic Flow
- TM-Synchronization

Net Centric Operations

SOA CORE SERVICES
- Messaging Services
- Interface Management
- Security Service
- Enterprise Services Mgt
- Collaboration Services

SUPPORT SERVICES
- Content Management
- Data Acquisition

ENTERPRISE GOVERNANCE
- SOA Governance
- Run-time Management

ADMINISTRATIVE SERVICES
- Data/Network Support Services
- Services
- Provisioning Management
- Training Support

ENTREPRISE WIDE OPERATIONS (NATIONAL)
- Flow Contingency Management
- Capacity Management
- Flight & State Data Management

System & Services Analysis
- System & Services Management
- Safety Management Service
- Trajectory Management

CGSIC
September 2013

Federal Aviation Administration
NextGen Implementation

To achieve its NextGen goals of increasing NAS capacity and efficiency while simultaneously improving safety, reducing environmental impacts, and increasing user access to the NAS, the FAA is implementing new Performance-Based Navigation (PBN) routes and procedures that leverage emerging technologies and aircraft navigation capabilities.

- PBN is comprised of Area Navigation (RNAV) and Required Navigation Performance (RNP) and describes an aircraft’s capability to navigate using performance standards.
- RNAV enables aircraft to fly on any desired flight path within the coverage of ground- or spaced-based navigation aids, or within the limits of the capability of aircraft self-contained systems, or a combination of both capabilities.
- RNP is RNAV with the addition of an onboard performance monitoring and alerting capability.
- Certain RNP operations require advanced features of the onboard navigation function and approved training and crew procedures. These operations must receive approvals that are characterized as Authorization Required (AR), similar to approvals required for operations to conduct Instrument Landing System Category II and III approaches.

**NextGen Transformational Programs**

- ADS-B
- CATMT
- Data Comm
- NNEW
- AIRE
- NVS
- SWIM

Legend:
- Purple – RNAV SID/STARs
- Yellow – RNAV En Route
- Green – Airports with RNAV or RNP Approaches